

ABSTRACT

A method for coating an active material with carbon to form an electrode material is disclosed, comprising: exposing olivine or nasicon to a carbon source gas in a furnace; and heating the carbon source gas to deposit carbon thereon. The carbon source gas, which may be mixed with an inert gas, generally decomposes between 100°C and 1300°C to generate carbon material. The amount of coated carbon on the olivine or nasicon is preferably <15 wt%, and more preferably about 4 wt% or less. Also disclosed is a battery comprising: a positive electrode comprising the inventive electrode material; a negative electrode; and an electrolyte.